

Utah Weekly Pertussis Update

2016 data, through MMWR week ending November 12, 2016 (MMWR week 45)

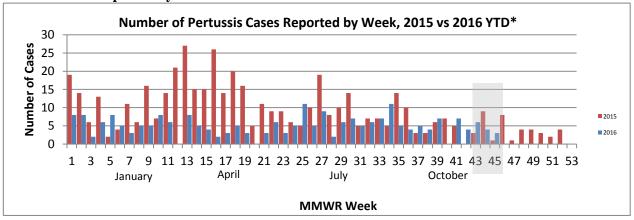
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2016 year-to-date		Utah Incidence rate, 2016 year-to-date	
(YTD)	229	(YTD) per 100,000 person-years	
		Utah Incidence rate, 2015 per 100,000 person-	
Total number of cases reported 2015	483	years	16.7
		National Incidence rate*, 2014 per 100,000	
Number of cases reported in past week	3	person-years.	10.4
Total number of cases reported, through same time			
period 2015	457	2016 Hospitalizations	13
	<1 year		
Age groups with the highest rates	1-4 year	2016 Cases in infants <1 year	19

^{*}National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



^{*}Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2016 Year-to-Date Incidence Rates, By Age

Age	2016	2014	
(years)	Cases	population	Rate*, **
<1	19	50,629	45.1
1-4	29	201,502	17.3
5-14	51	511,355	12.0
15-24	34	474,017	8.6
25-34	20	440,622	5.4
35-44	27	386,350	8.4
45-54	18	306,598	7.0
55-64	20	276,569	8.7
65+	11	295,260	4.5
Total	229	2,942,902	9.0

^{*} Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2016 Year-to-Date

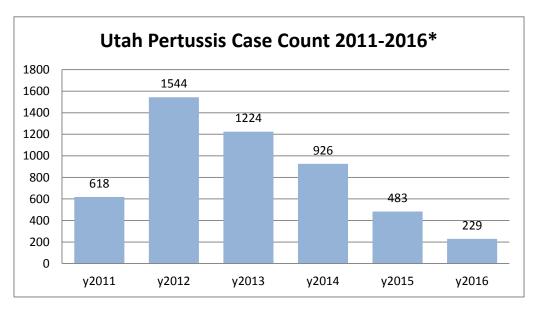
	Í	Age		2014	
	Grade	(years)	2016 Cases	Population	Rate*
	Preschool	3-4	123	101,497	145.5
Kii	ndergarten	5	2	52,285	4.6
	1	6	4	53,101	9.0
	2	7	3	52,876	6.8
	3	8	6	52,082	13.8
	4	9	2	51,852	4.6
	5	10	5	51,206	11.7
	6	11	9	50,689	21.3
	7	12	6	48,996	14.7
	8	13	1	49,110	2.4
	9	14	13	49,158	31.8
	10	15	10	47,568	25.2
	11	16	6	46,830	15.4
	12	17	8	46,231	20.8

^{*} Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waining immunity.

Utah Case Counts of Pertussis, 2011-2016* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2016 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.



Incidence of pertussis by Local Health Department, 2016 YTD

Local Health		
Department	2016 Cases	Rate*
Bear River	7	4.9
Central Utah	1	1.6
Davis County	18	6.6
Salt Lake County	107	11.8
San Juan County	0	0.0
Southeast Utah	17	50.1
Southwest Utah	11	6.1
Summit County	8	24.6
Tooele County	4	7.8
TriCounty	2	4.1
Utah County	27	5.8
Wasatch County	0	0.0
Weber-Morgan	21	10.0

^{*} Rate is calculated per 100,000 person-years using 2014 Utah population estimates

